

Q1. Study the following piece of code that is used to print out the local machine's address and then sits in a loop accepting hostnames and looking them up. Answer the following questions.

```
public static void main(String[] args) {
    printLocalAddress();
    InputStreamReader in = new InputStreamReader(System.in);
    BufferedReader br = new BufferedReader(in);

    String name;
    do {
        System.out.println("Enter a hostname or IP address:");
        name = br.readLine();
        printRemoteAddress(name);
    } while (name != null);
}
```

Print local and IP address

9.5
10

Write the code for implementing the following two functions:

a. printLocalAddress(): [5 Marks]

1. void printLocalAddress() {
2. { InetAddress a2 = InetAddress.getLocalHost();
3. System.out.println("IP / HostName" + a2.getHostAddress());
4. }
5. }

b. printRemoteAddress(name): [5 Marks]

1. String printRemoteAddress(String name) {
2. { InetAddress a2 = InetAddress.getByAddress(name);
3. System.out.println("IP : " + a2.getHostAddress());
4. System.out.println("HostName : " + a2.getHostAddress());
5. }